

## Position Description (PD) Template for Yucca Mountain Lead Lab Activities

Position Description Number	YM046	
Creation Date of PD	07/05/2006	
Job Title	<b>Transition Leader: Site Characterization for Performance Confirmation</b>	
SNL Dept Name	Performance Confirmation	
SNL Org Number (or TBD)	0685x	
Number of Openings	1.5	
Description of Position	<p><b>Site Characterization to Performance Confirmation.</b> The concept behind this work is that 10CFR Part 63 specifies that portions of the Performance Confirmation program started during site characterization and will continue as part of PC. This group is established to perform post-test evaluations of site characterization tests. Tests have been executed and some are currently in process under the aegis of characterization and process model development. At the outset of these tests, hypotheses and expectations were developed in much the same way as PC tests will postulate expected results, i.e., confirmation. The PC program is developed to confirm assumptions in the LA.</p> <p>This group will review site characterization tests, starting with the Drift Scale Test, and ascertain how well the pre-test expectations were met. Subsequently, a similar evaluation will be made for Alcove8/Niche3 seepage, and other site characterization test thereafter. This information will guide implementation of analogous PC tests.</p> <p>The first milestone will be a report on the predictions and confirmation successes of those predictions from the DST. A second milestone would establish how well the results of Alcove8/Niche3 experiments confirmed predictions generated by the UZ fracture model. This group will experience an increase in scope when members of the technical staff finish AMRs turn their attention to R&amp;D testing.</p>	
Required Skills & Experience	<p><b>Required Skills</b></p> <ul style="list-style-type: none"> <li>• Versed in modeling and testing</li> <li>• Breadth of knowledge of YMP technical and Quality Assurance programs</li> <li>• Good oral and written communication skills</li> <li>• Engineering competence to evaluate technical merit of experimental endeavor</li> <li>• Knowledge of regulatory requirements for Performance Confirmation</li> </ul> <p><b>Required Experience</b></p> <ul style="list-style-type: none"> <li>• Five years or more of YMP experience</li> <li>• Strong technical publication record</li> <li>• Considerable QA experience in a regulatory environment</li> <li>• Demonstrated experience in meeting YMP reporting deadlines.</li> </ul>	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	An advanced degree in engineering, mathematics, physical or geological sciences is required.	
Desired Education (Degrees & Levels - if applicable)	Decision analysis training would be helpful.	
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	10/1/06	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	Y

Please Select All Related WBS Elements for this PD  
(required for distributing PDs to contract providers for sourcing)

	Name	
WBS Elements of 1.5.02		
1.5.02.03	U.S. Nuclear Regulatory Commission Interactions/Commitments	X
WBS Elements of 1.5.03		
1.5.03.02	Total System Performance Assessment - Post Closure Safety	X
1.5.03.03	Unsaturated Zone Flow and Transport - Post Closure Safety	X
1.5.03.04	Saturated Zone Flow and Transport - Post Closure Safety	X
1.5.03.05	Waste Package Degradation – Post Closure Safety	X
1.5.03.06	Waste Form Degradation – Post Closure Safety	X
1.5.03.07	Engineered Barriers System Performance – Post Closure Safety	X
1.5.03.11	Postclosure Safety Test Coordination – Post Closure Safety	X
1.5.03.11	Postclosure Safety Test Coordination-ESF Ops	X
1.5.03.12	Performance Confirmation Tests-Post Closure S	X
	Performance Confirmation and Experimental Strategy	X

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